



Protein Purification
Fong et al.
U.S.S.N. 10/663,483
Docket No. GC775-2
Sheet 1 of 14

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General Schematic of Antibody Structure

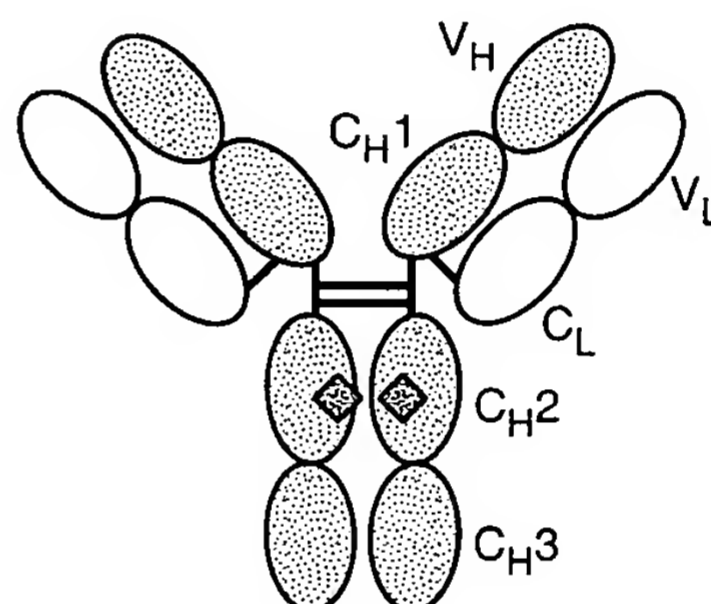
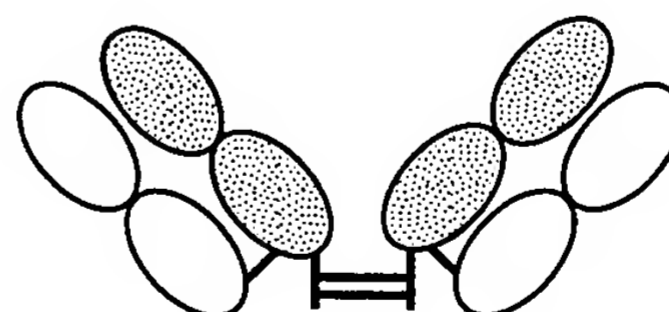
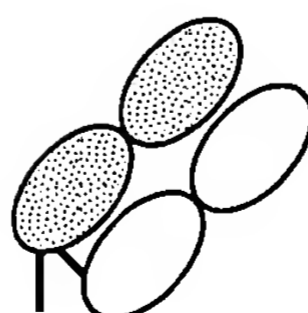


FIG. 1A

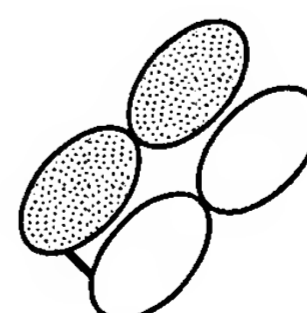
General Schematic of Antibody Fragments



F(ab')₂



Fab'



Fab

FIG. 1B

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General Schematic of Antibody-Glucoamylase Fusion

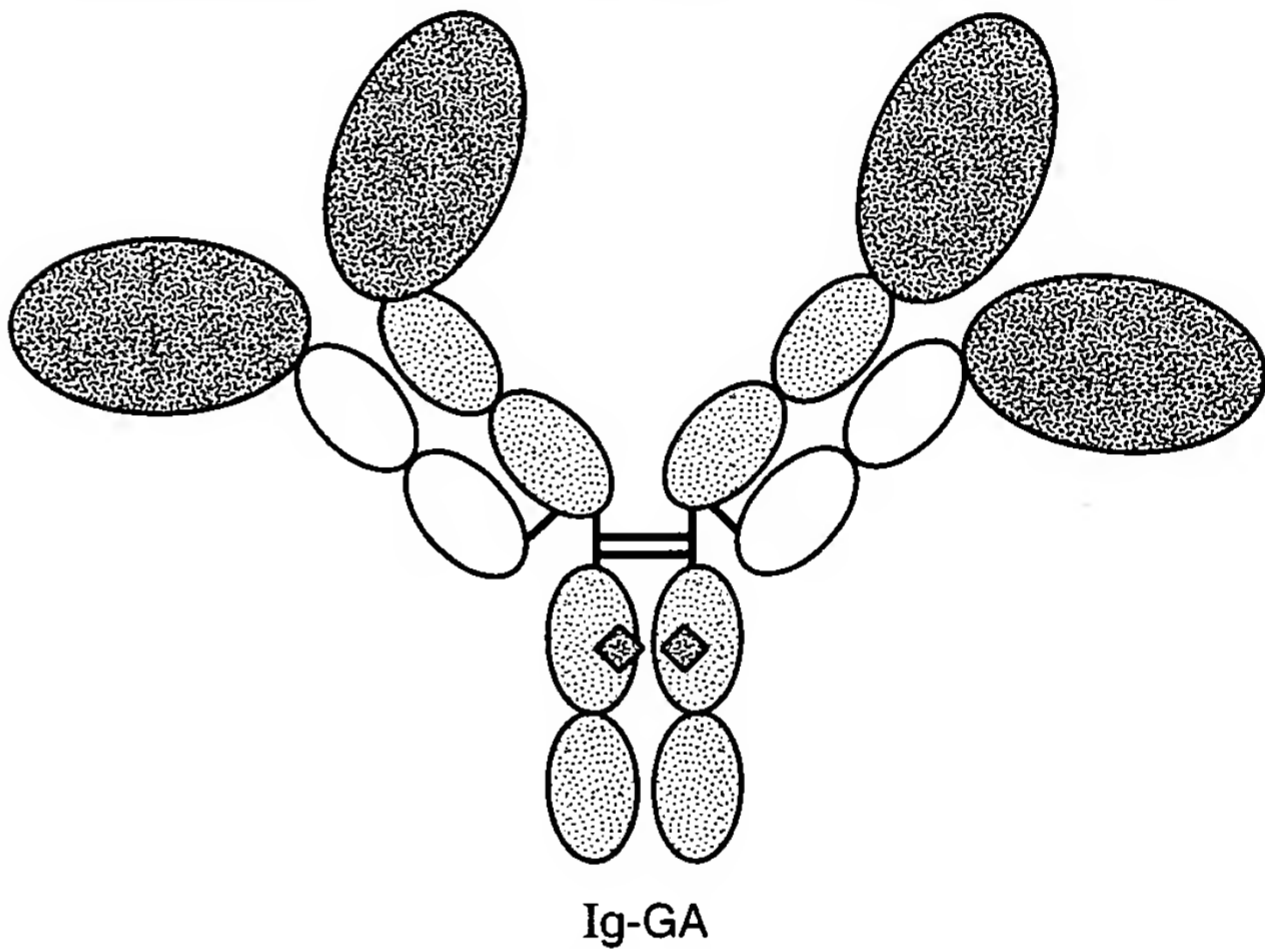
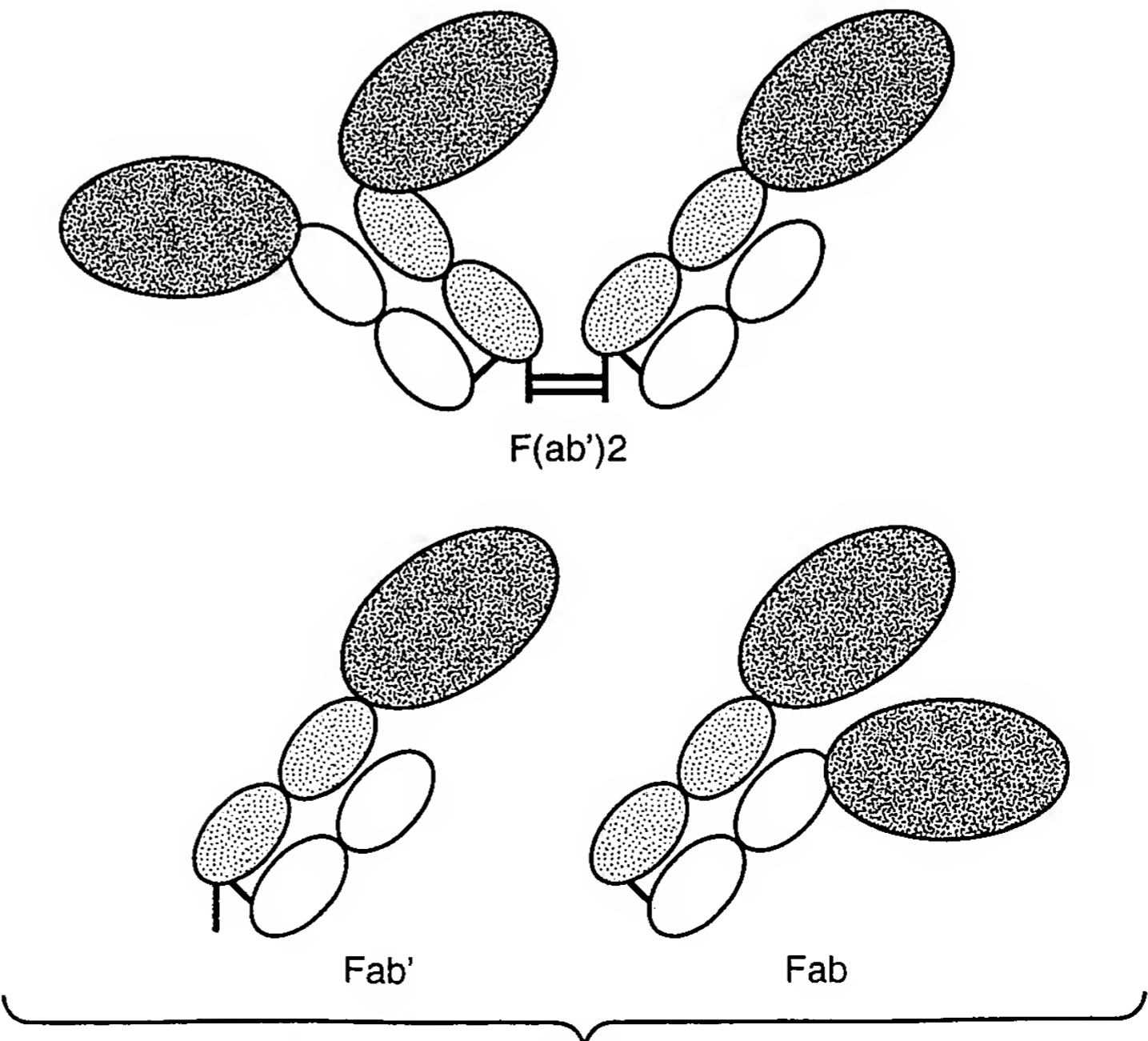


FIG. 1C

General Schematic of Antibody Fragment-Glucoamylase Fusions



Adsorption by Hydrophobic Association

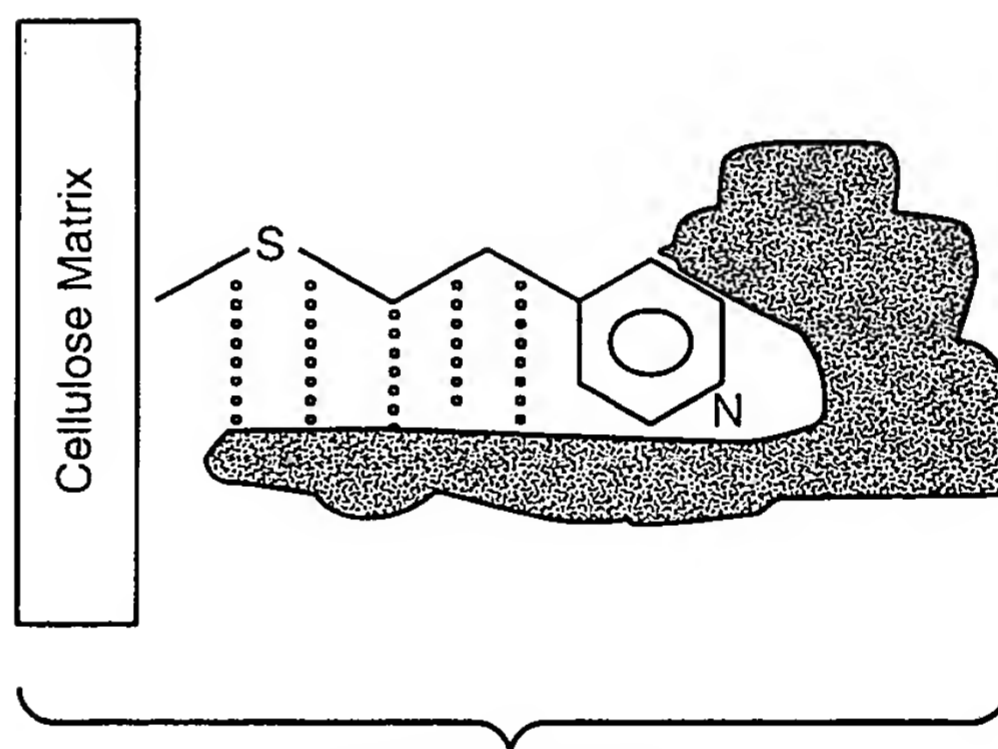


FIG._2A

Desorption by Ionic Repulsion

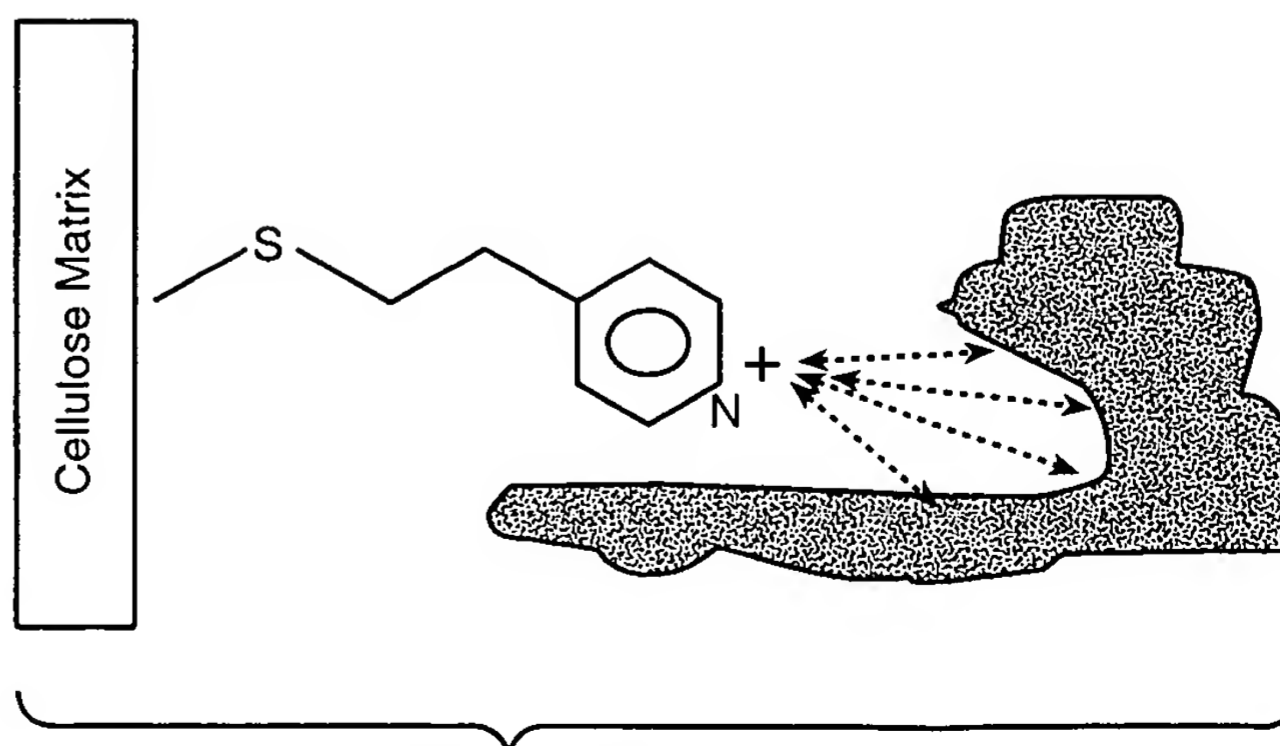


FIG._2B

Sample loaded: 50 mL treated Fermentation 503 Supernatant UFC. Treatment includes neutralization of 500 mL to pH 7.7 with 50 mL 1 M NaOH; centrifugation 25000xg; and vacuum filtration through 0.8, 0.45, and 0.22 μ m filters with 10 g FW12 precoat.

Medium: Protein A Ceramic
HyperD F
Column: HR 16/5, 5.4-mL CV,
packed at 10 mL/min.
0.45 MPa
Load: 25 mM Tris, pH 7.7
Buffer: 25 mM Tris, 500 mM
NaCl, pH 7.7
Elution Buffer: 100 mM citrate, pH 2.5

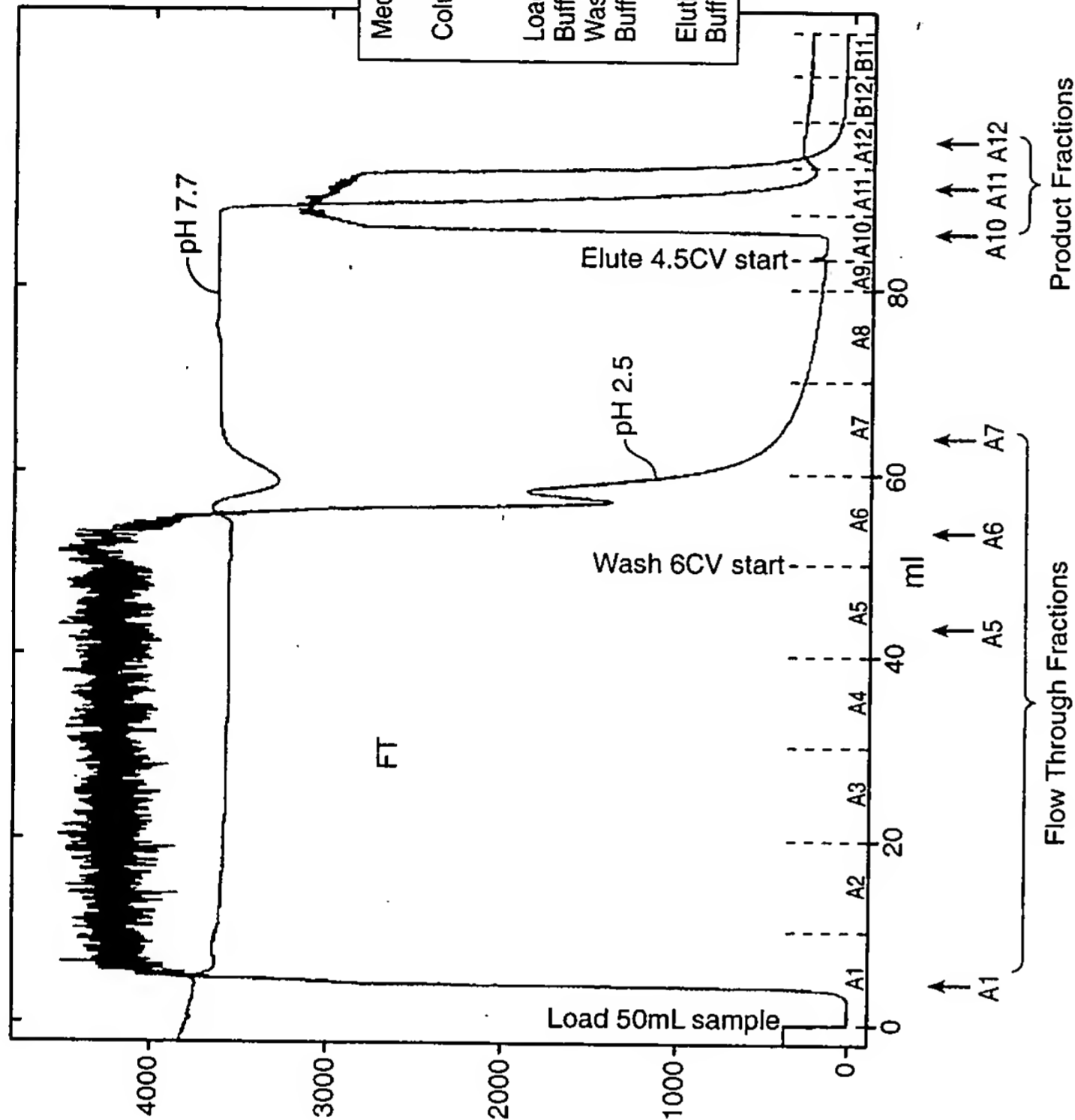


FIG. 3A

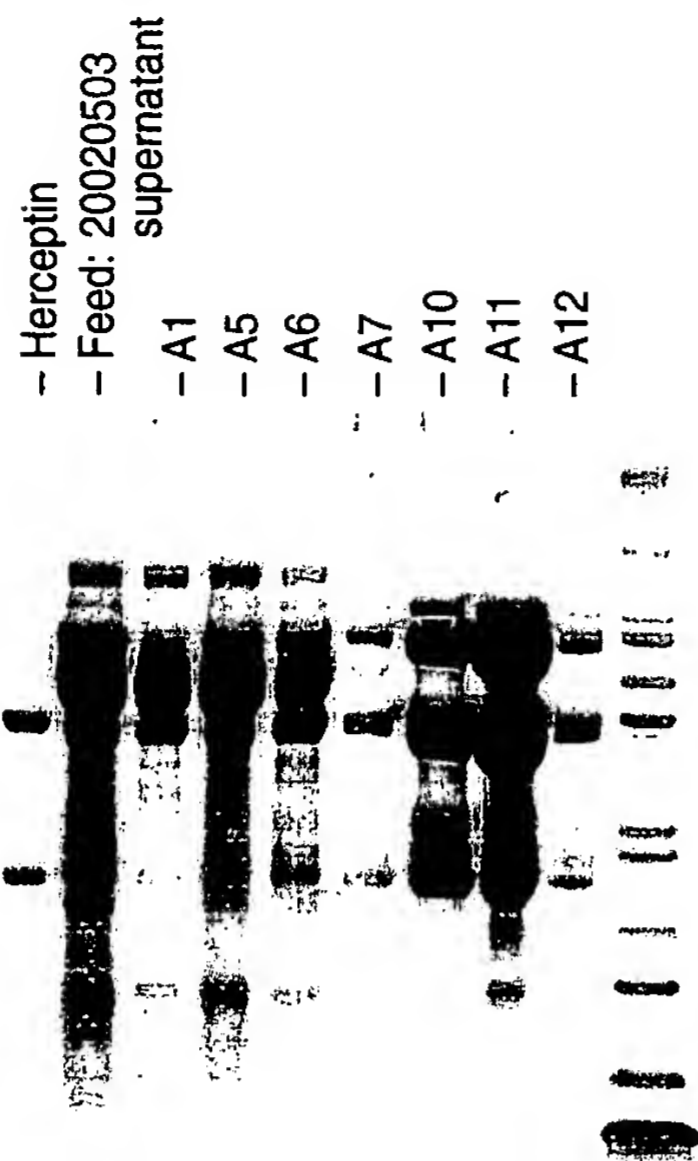
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PAC062602

4-12%
Bis-Tris
MES
SDS

Reducing

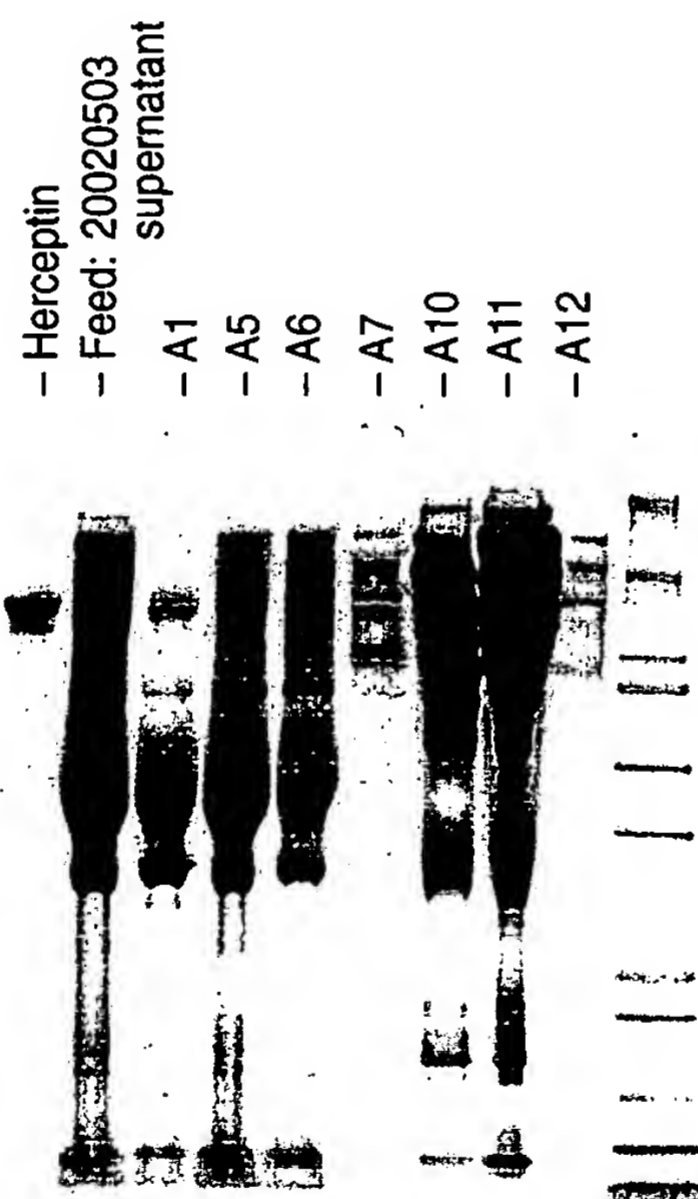


- 200
- 116
- 97
- 66
- 55
- 37
- 31
- 22
- 14
- 6

PAC062602

4-12%
Bis-Tris
MOPS
SDS

Non-reducing



- 200
- 116
- 97
- 66
- 55
- 37
- 31
- 22
- 14

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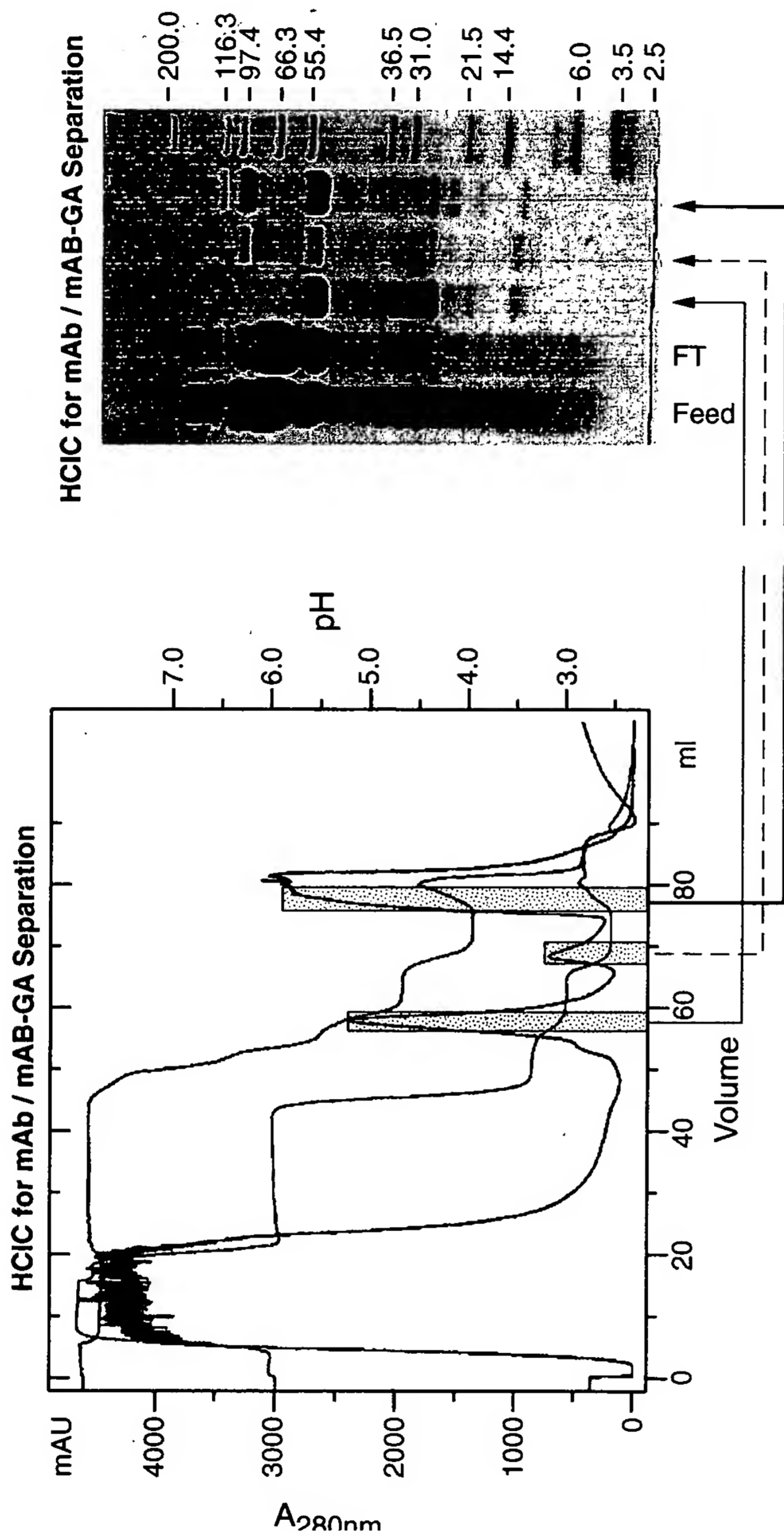


FIG. 4A

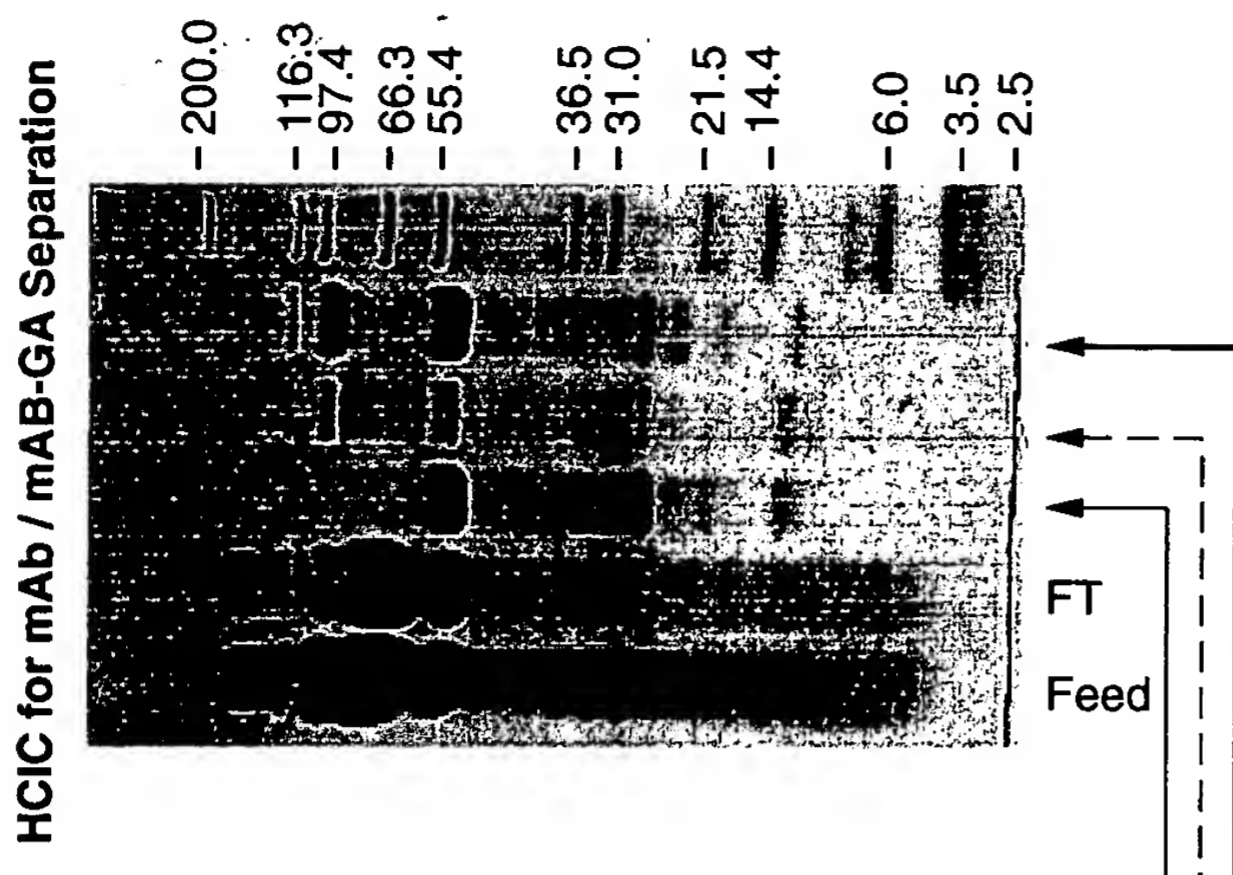


FIG. 4B

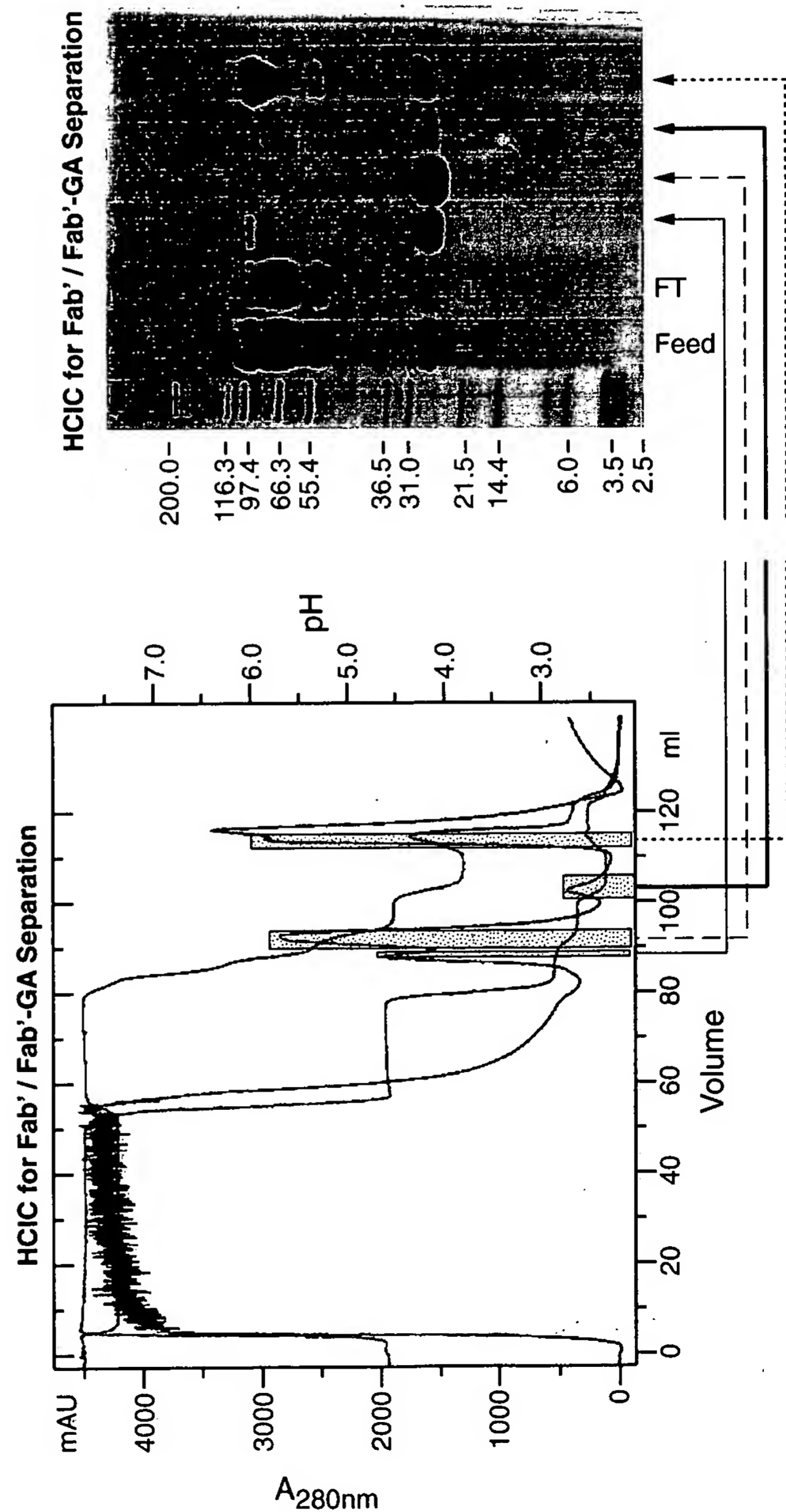


FIG._5A

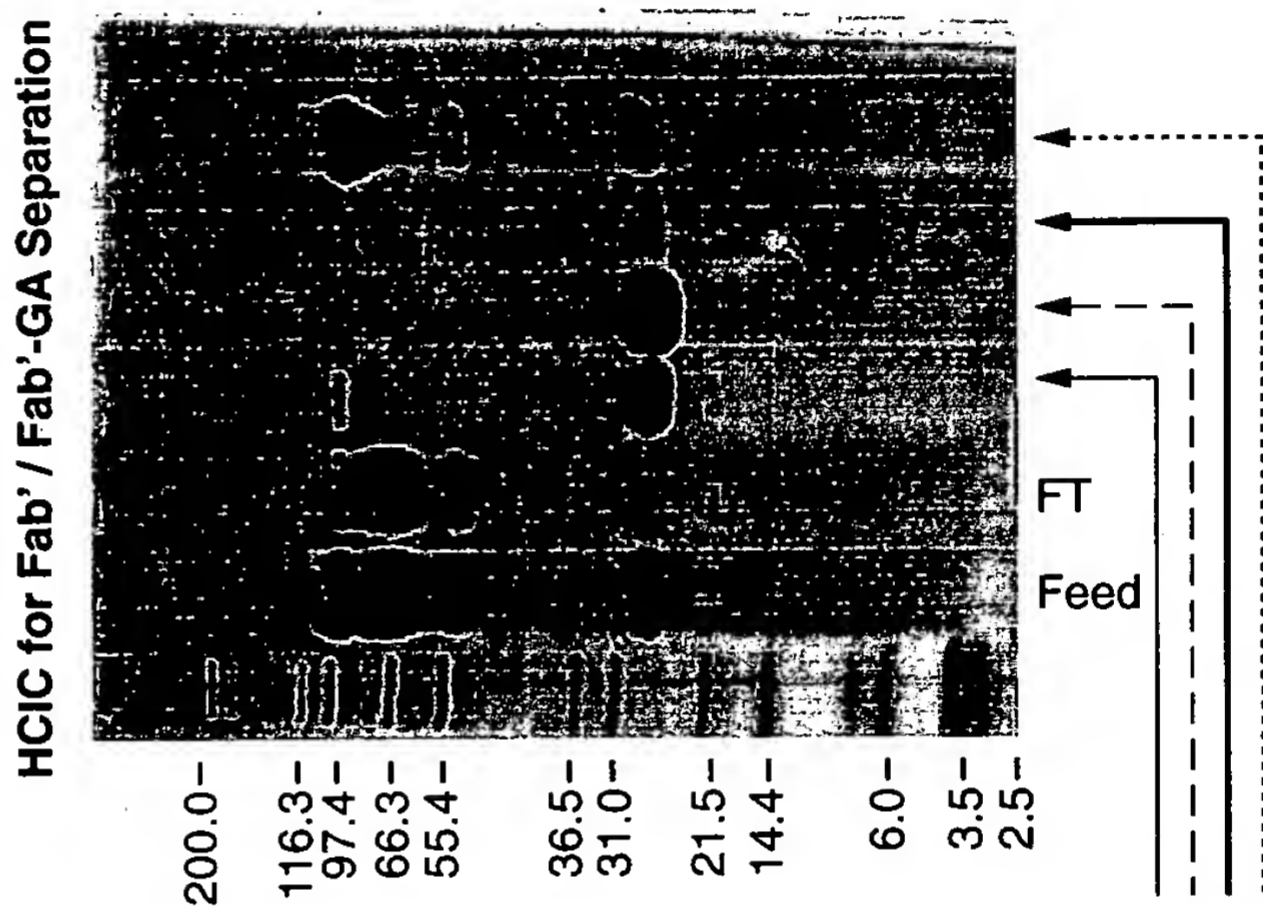


FIG._5B

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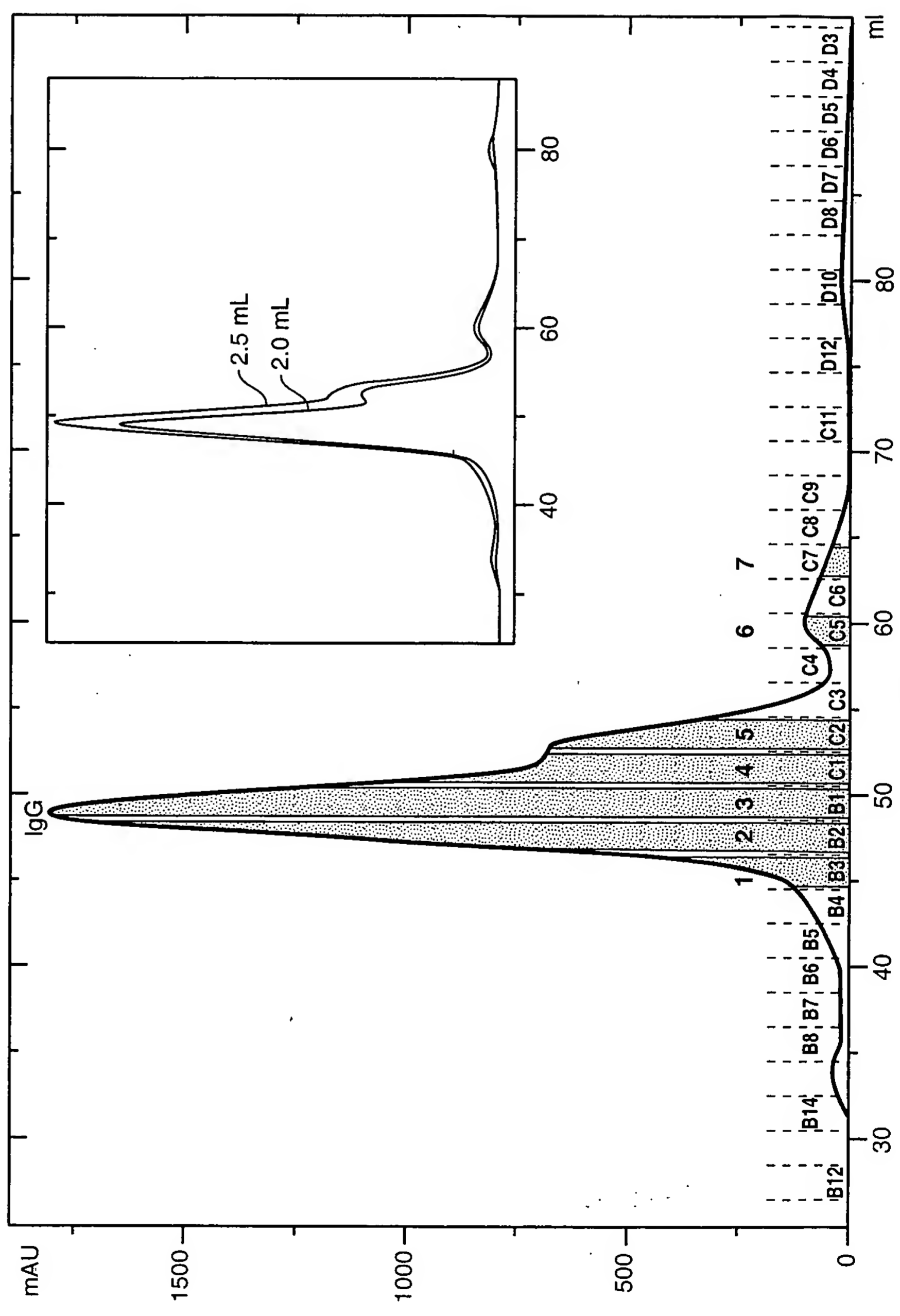
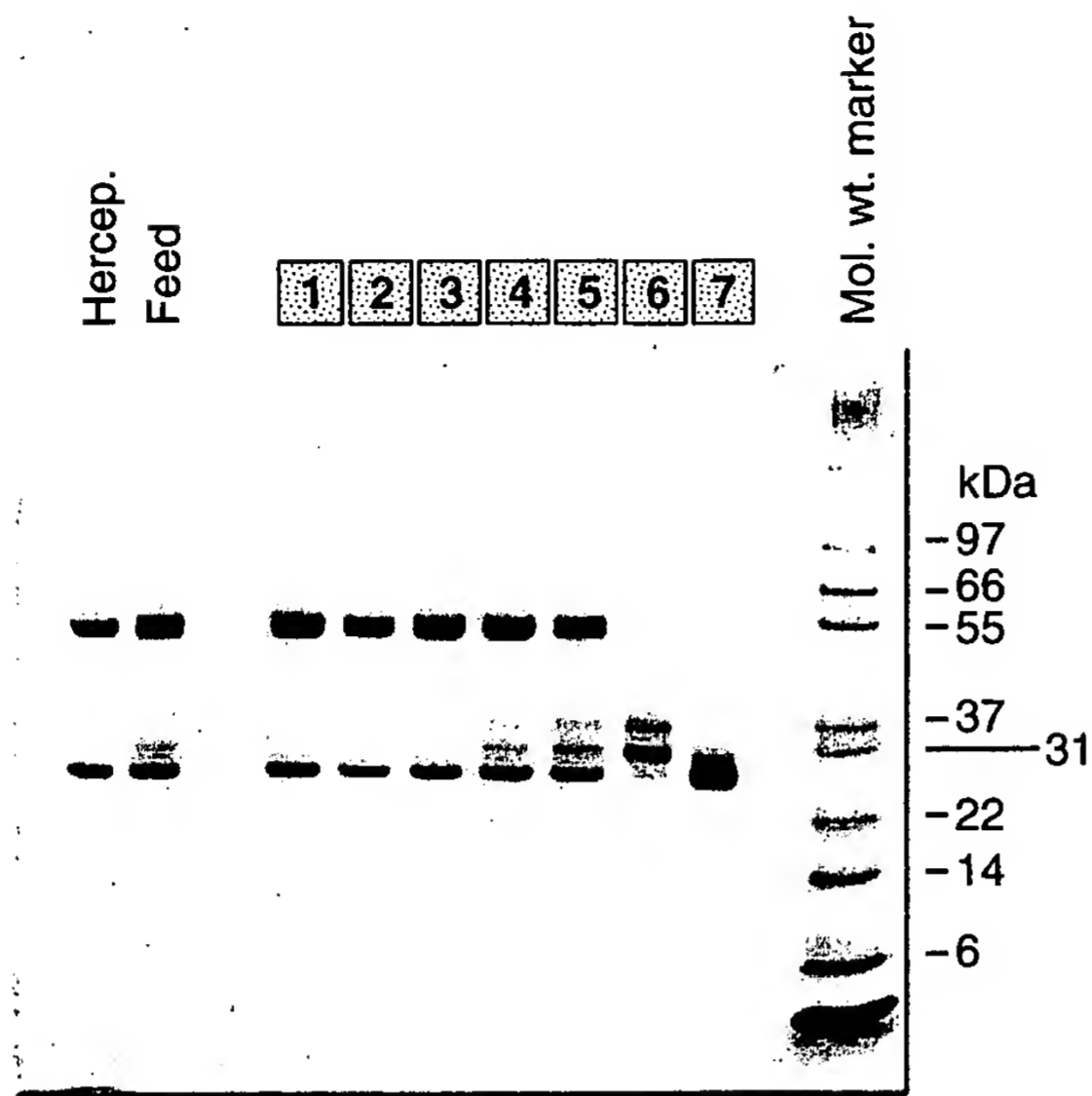


FIG._6A

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FIG._6B

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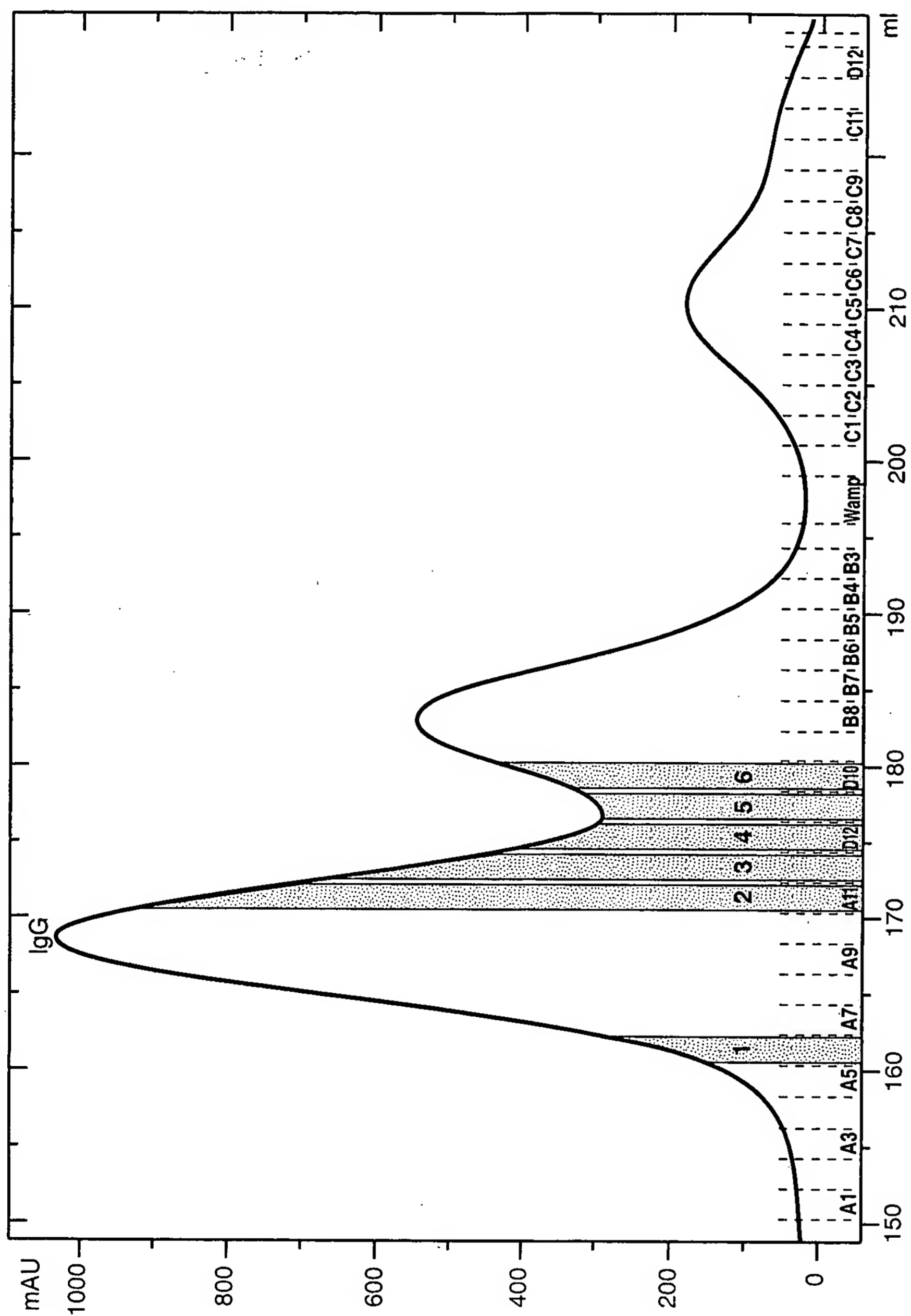


FIG. 7A

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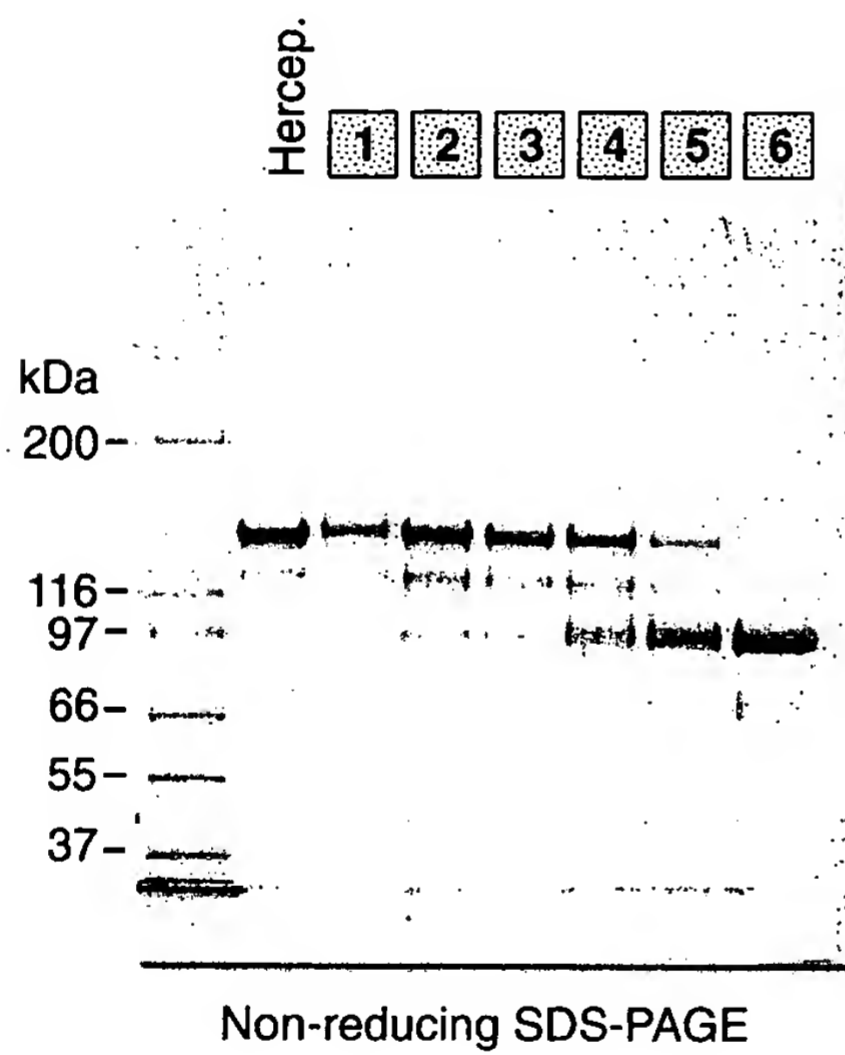
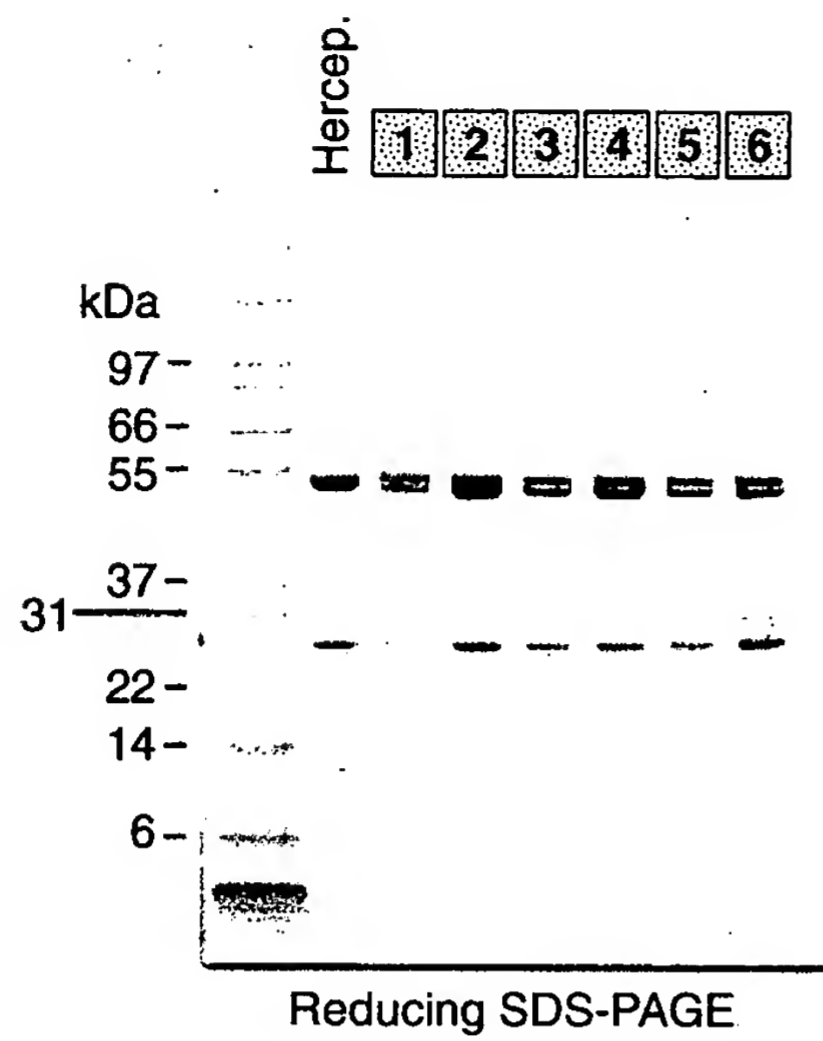


FIG. 7B

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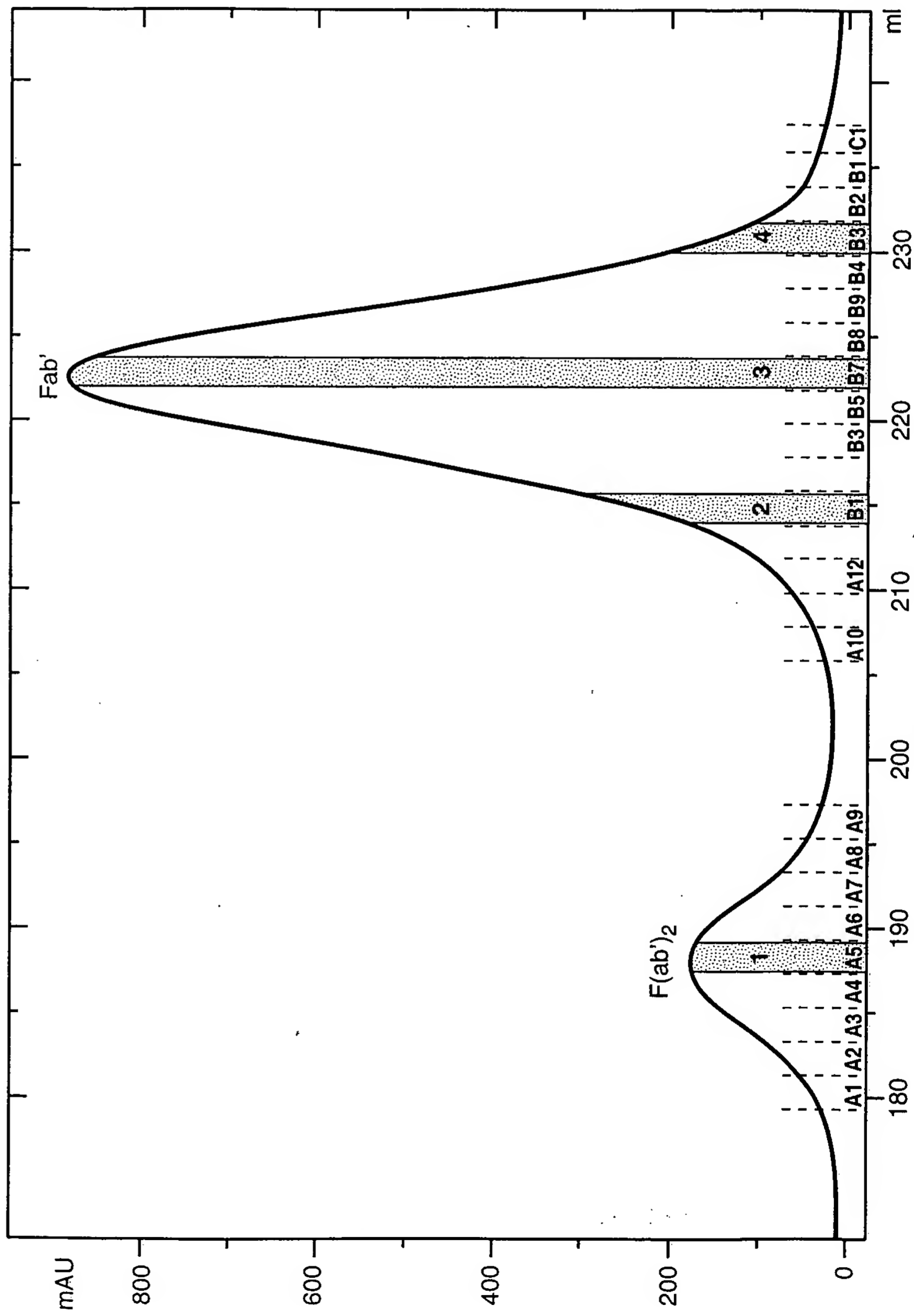


FIG. 8A

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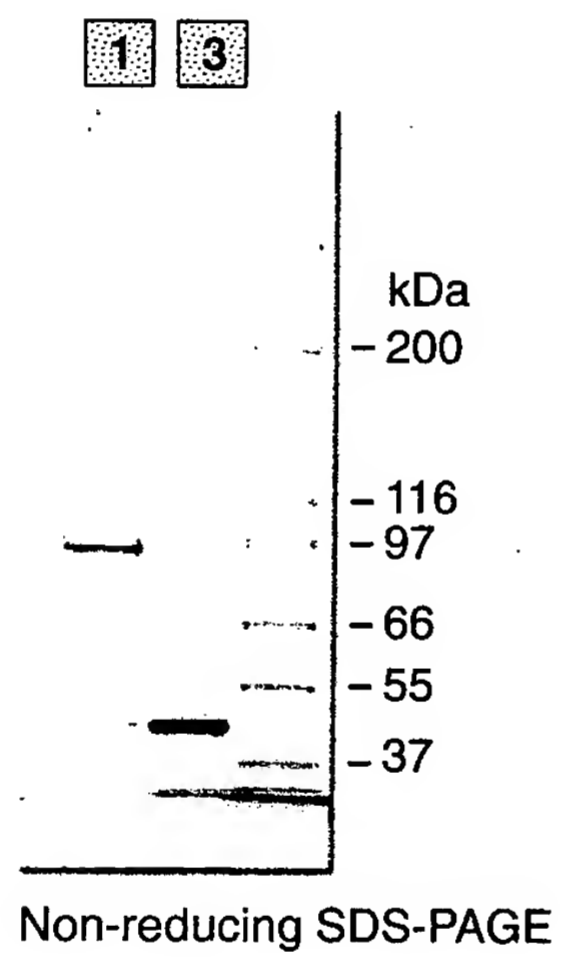
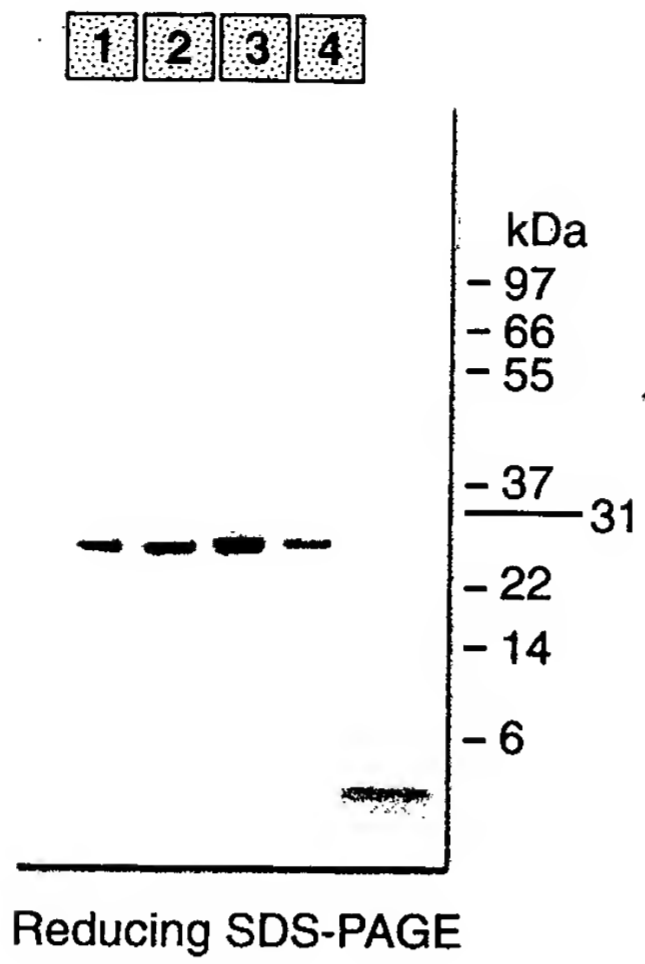
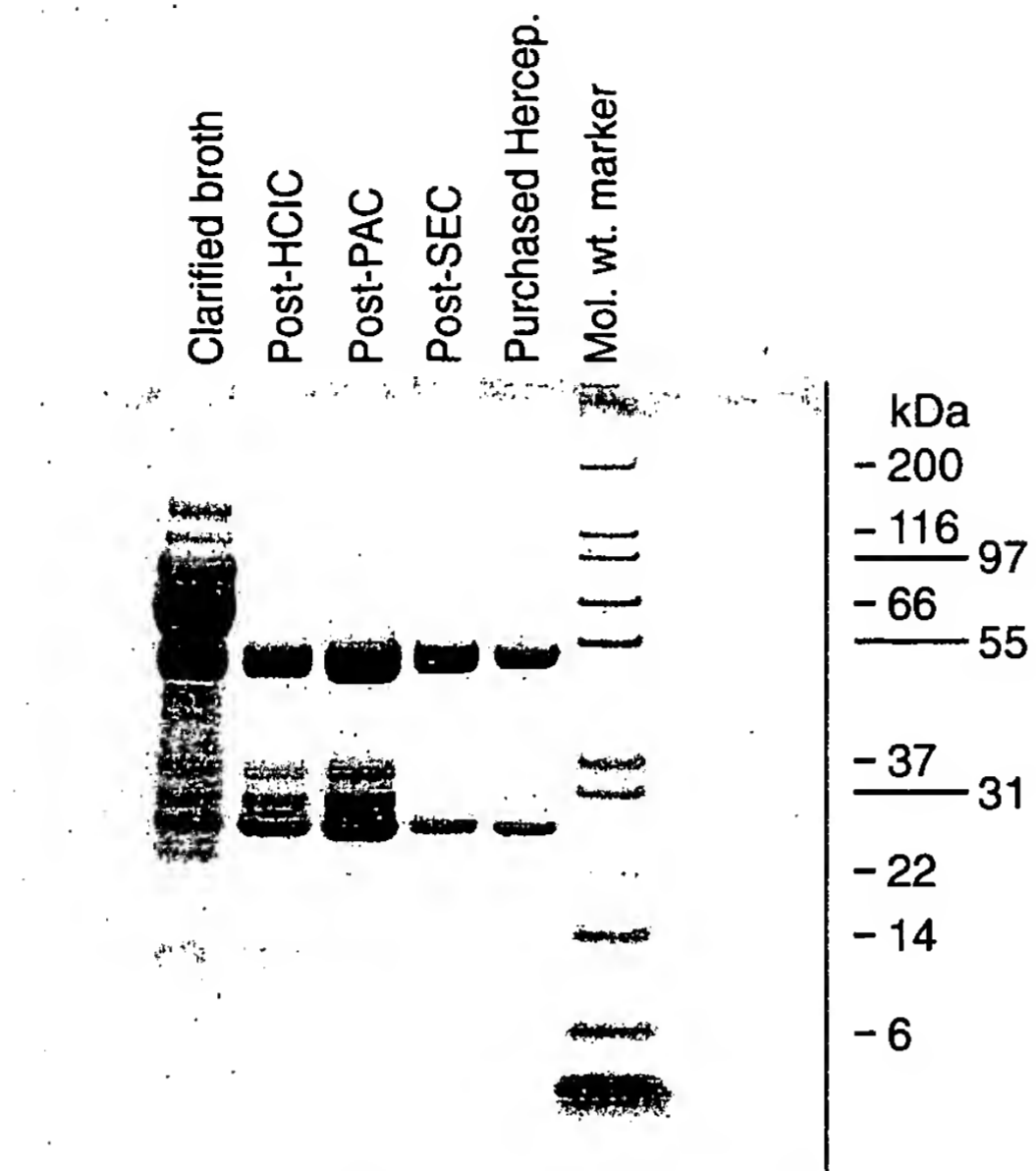


FIG. 8B

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FIG._9